

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BP106723	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/FI 2003/000529	International filing date (day/month/year) 3 June 2003	(Earliest) Priority Date (day/month/year)
Applicant Nokia Corporation et al.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 4

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☒ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER**IPC7: H04L 27/26**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04L, H03D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 0169878 A1 (CONEXANT DIGITAL INFOTAINMENT LTD), 20 Sept 2001 (20.09.2001), page 2, line 9 - line 20; page 3, line 1 - page 8, line 5 --	1-4,7-23
X	EP 0837582 A2 (ALPINE ELECTRONICS, INC), 22 April 1998 (22.04.1998), page 10, line 46 - page 11, line 14; page 13, line 36 - page 15, line 23 --	1
A	EP 0955754 A1 (NOKIA TECHNOLOGY GMBH), 10 November 1999 (10.11.1999) --	1-23

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

13 January 2004

Date of mailing of the international search report

16-01-2004

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Swedish Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 9917493 A1 (SAMSUNG ELECTRONICS CO, LTD), 8 April 1999 (08.04.1999) --	1-23
A	US 5848107 A (PHILIPS, N.J.L.), 8 December 1998 (08.12.1998) -- -----	1-23

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				GB	2365714 A	20/02/2002
EP	0837582	A2	22/04/1998	JP	10126288 A	15/05/1998
EP	0955754	A1	10/11/1999	FI	106592 B	00/00/0000
				FI	981015 A	08/11/1999
				US	6421401 B	16/07/2002
WO	9917493	A1	08/04/1999	AU	9465098 A	23/04/1999
				GB	0007373 D	00/00/0000
				GB	2346052 A,B	26/07/2000
				JP	2001518742 T	16/10/2001
				KR	234329 B	15/12/1999
US	5848107	A	08/12/1998	CA	2202752 A	27/02/1997
				CN	1097928 B	01/01/2003
				CN	1161121 A	01/10/1997
				EP	0786183 A	30/07/1997
				JP	10507616 T	21/07/1998
				WO	9707620 A	27/02/1997